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PATENT ABSTRACTS OF JAPAN(21) Application number: **08255763**(51) Intl. Cl.: **F02B 37/24 F01D 17/16**(22) Application date: **27.09.96**

(30) Priority:		(71) Applicant: TOYOTA MOTOR CO
(43) Date of application publication:	21.04.98	(72) Inventor: OKUYAMA AKIHIDE
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**(54) VARIABLE
DISPLACEMENT
TURBOCHARGER**

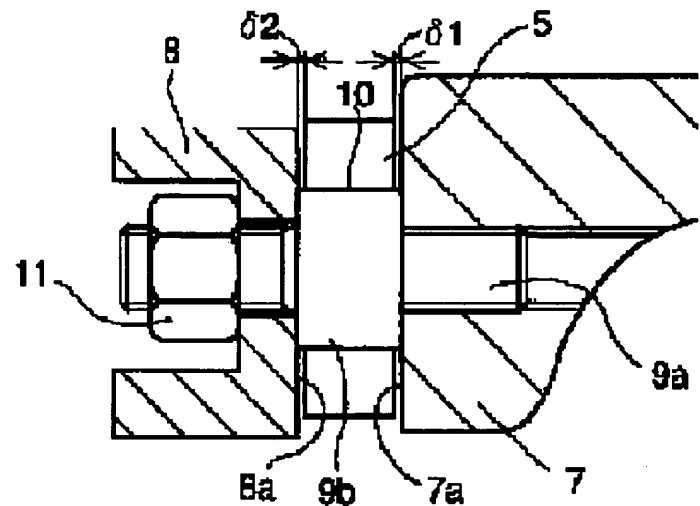
(57) Abstract:

PROBLEM TO BE SOLVED: To prevent any stick of a variable nozzle vane surely from occurring by having an interval decision member, deciding on an interval between a turbine housing wall and a plate, composed of a shank extending in space between the turbine housing wall and the plane and a spacer part being situated at the peripheral side of this shank and extending in the axial direction.

SOLUTION: A variable displacement turbocharger 1 is provided with a turbine 2 and a compressor, and when it controls the opening of a variable nozzle vane 5, supercharging pressure is controlled. In order to decide on each interval among this variable nozzle vane 5, a turbine housing wall 7 and a plate 8, an interval decision member 9 is installed there, but it is



composed of a shank 9a extending over the turbine housing wall 7 and the plate 8 and a spacer part 9b being situated at the more shank radial peripheral side than this shank 9a, and extending in the axial direction of the shank in space between a turbine housing wall surface 7a and a plate surface 8a. In this connection, the shank 9a and the spacer part 9b both are formed into such a structure as making the thermal expansion quantity become almost the same in the shank axial direction.



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